

TABLE OF CONTENTS

EXECUTIVE SUMMARY	ii
LIST OF TABLES AND FIGURES	iv
ACKNOWLEDGEMENTS	v
GLOSSARY	vi
CHAPTER 1 INTRODUCTION	1
1.1 Background	1
1.2 Study Rationale	1
1.3 Study Aims	2
1.4 Scope of Work	3
CHAPTER 2 METHODS	5
2.1 Developing a List of Exposure-Relevant Tasks	5
2.2 Questionnaire Development	8
2.3 Questionnaire Field-Testing and Evaluation	12
2.4 Evaluating the Task-Based Approach	14
2.5 Data Analysis	15
CHAPTER 3 RESULTS	23
3.1 List of Exposure-Relevant Tasks	23
3.2 Task-Based Time Log Questionnaire	25
3.3 Questionnaire Field Testing and Evaluation	29
3.4 Re-creating Exposure-Day	34
CHAPTER 4 DISCUSSION	41
4.1 Source and Environment	42
4.2 Activity Log	44
4.3 1000-Person Study Data	46
4.4 Advantages to a Web-Based Questionnaire	47
4.5 Robust Regression Model	48
4.6 Hourly Weighting Method	49
4.7 Smith Method	49
4.8 Comparison of Methods	49
4.9 Spot Measurement Data	50
4.10 Conclusions	51
BIBLIOGRAPHY	54
APPENDIX	55
Part A: California Occupational Employment Statistic (OES) Common Jobs List....	56
Part B: Job Titles Associated with Tasks for 1000-Person Study Data.....	61
Part C: Stakeholders' Advisory Committee Presentation.....	66
Part D: Spot Measurement Survey Form.....	69
Part E: Comparison of Estimated Task Geometric Means by Method (mG).....	70
Part F: Task Summary Statistics by Method (mG).....	72
Part G: Comparison of Estimated Subject Means by Method (mG).....	80
Part H: Subject Summary Statistics by Method (mG).....	84